

PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION

Abstract

5 An ultrawideband radio frequency pulse is generated by shaping a carrier signal having a selected frequency with a window function. The shaped carrier is gated to produce the ultrawideband pulse. In further embodiments, the window function comprises a sinusoidal function, and the ultrawideband pulse is formed via a mixer and a CMOS radio frequency switch.

"Express Mail" mailing label number: EV415949407US

Date of Deposit: March 31, 2004

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